Specifications: PS-15/PS-15M PS-30/PS-30M Nominal Battery Voltage 12/24 V 12/24 V 30/60 V 30/60 V Max. PV Open-Circuit Voltage Maximum Input Current 15 A 30 A Rated Load Current 15 A 30 A



Warning: Shock Hazard

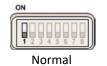
Test between all terminals and ground before touching.

Power or accessory terminals are **NOT** electrically isolated from DC input and may be energized with hazardous solar voltage.

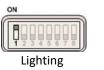
Operational Configuration:

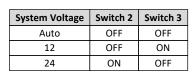
Switch 1: Load/Lighting

Mode	Switch 1		
Normal	OFF		
Lighting	ON		

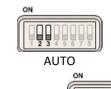








Switches 2 & 3: System Voltage



12 V

24 V

Switches 4, 5, & 6: Battery Type Selection

NOTE: The ProStar Gen3 can be programmed to accommodate a wide range of charging parameters. Consult the battery manufacturer for optimal battery charging settings.

To Change Settings:

- On metered models, use the interface on the meter or use the software available at https://www.morningstarcorp.com/msview/.
- On non-metered models, use the software available at https://www.morningstarcorp.com/msview/.

See the ProStar Installation, Operations, and Maintenance Manual for additional information/guidance.



















1 – Sealed

2 – Sealed

4 - AGM /Flooded *

5 - Flooded

6 – Flooded

7 – L-16 Custom**

	P Swite Setting		Battery Type	Absorption Stage	Float Stage	Equalize Stage	Absorption Time	Equalize Time	Equalize Timeout	Equalize Interval	LVD (Volts)	LVR Volts)
4	5	6		(Volts)	(Volts)	(Volts)	(Minutes)	(Minutes)	(Minutes)	(days)	(voits)	voits)
OFF	OFF	OFF	1 – Sealed*	14.00	13.50		150				11.5	12.6
OFF	OFF	ON	2 – Sealed*	14.15	13.50	14.40	150	60	120	28	11.5	12.6
OFF	ON	OFF	3 – Sealed*	14.30	13.50	14.60	150	60	120	28	11.5	12.6
OFF	ON	ON	4 – AGM/Flooded*	14.40	13.50	15.10	180	120	180	28	11.5	12.6
ON	OFF	OFF	5 – Flooded	14.60	13.50	15.30	180	120	180	28	11.5	12.6
ON	OFF	ON	6 – Flooded	14.70	13.50	15.40	180	180	240	28	11.5	12.6
ON	ON	OFF	7 – L-16	15.40	13.40	16.00	180	180	240	14	11.5	12.6
ON	ON	ON	8 – Custom**	Custom	Custom	Custom	Custom	Custom	Custom	Custom	Custom	Custom
*"\$02	*"Sealed" hattery types include Gel and AGM Ratteries											

[&]quot;Sealed" battery types include Gel and AGM Batteries

^{**}Lithium-ion and some other battery types require custom programming. Morningstar provides downloadable settings for selected battery manufacturers here: https://www.morningstarcorp.com/energy-storage-partner-program/

Shared Settings Set Point		Shared Settings	Set Point	
Absorption Extension Voltage	12.50 Volts	Float Cancel Voltage	12.10 Volts	
Absorption Extension Time	Absorption Time +30 minutes	Equalize Time-Out	Equalize Time +60 minutes	
Float Exit Time-Out	30 minutes	Temperature Compensation Co-Efficient	-30 millivolts / °C / 12 Volts	

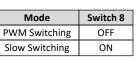
Switch 7: Battery Equalization

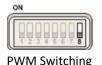
Mode	Switch 7
Manual Equalization	OFF
Auto-Equalization	ON













Contact Information:

Technical Support: Support.morningstarcorp.com

Phone: 1-215-321-4457



Switch 8: Current Switching





MORNINGSTAR

Max 12.17 V

Min 12.16 V

Metered version shown.

ProStar[™]

Solar Charging System Controller

Quick Start Guide

Safety Information:

Warning: Shock Hazard

The ProStar Gen3 controller must be installed by a qualified technician in accordance with the electrical regulations of the country of installation.



Warning: Shock Hazard

This unit is not provided with a GFDI device. This charge controller must be used with an external GFDI device as required by the Article 690 of the National Electrical Code for the installation location.



IMPORTANT: READ the ProStar Gen 3 Installation Manual for safety and regulatory information, instructions on configuration and operation, and warranty information.

Warranty Registration: https://www.morningstarcorp.com/product-registration/

In the box:

Scan QR Code to go

Installation Manual

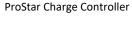
information online.

directly to the

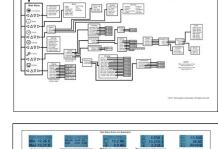
ProStar Gen3

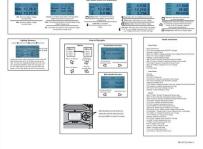
and warranty











Menu Map (2 pages)

Tools Required:

- #2 Philips Screwdriver

Optional Accessories







Remote Temperature Sensor (RTS)



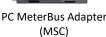
PV Ground Fault Protection

(GFPD-150V)

Ethernet MeterBus Converter (EMC-1)



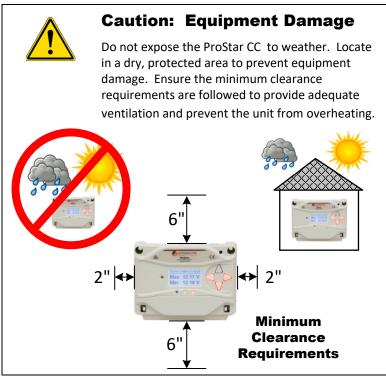
Adapter (UMC-1)

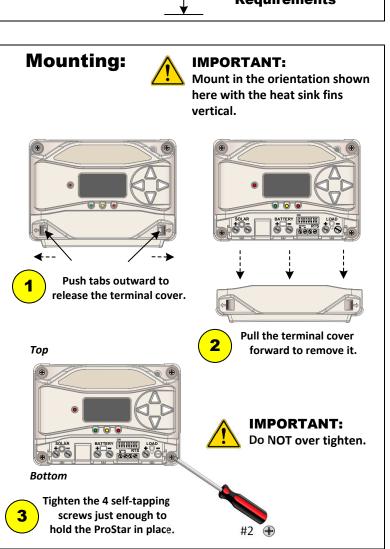


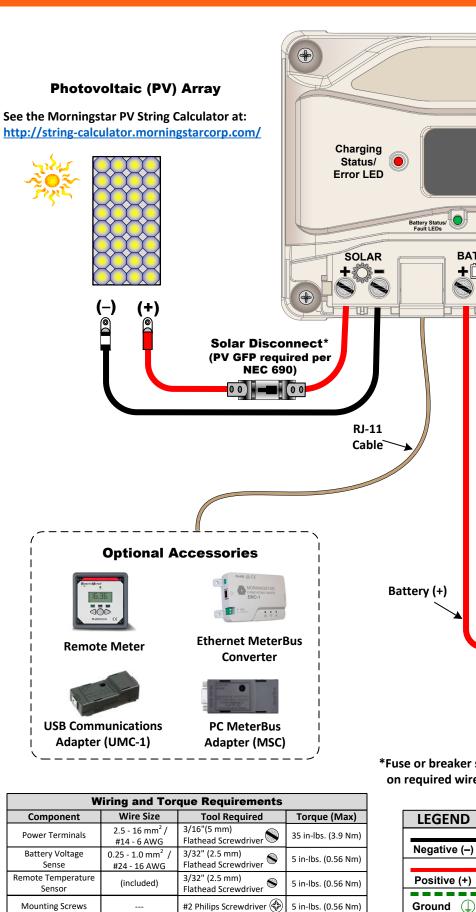
© 2022 Morningstar Corporation. All Rights Reserved. MS-001534 rev. D

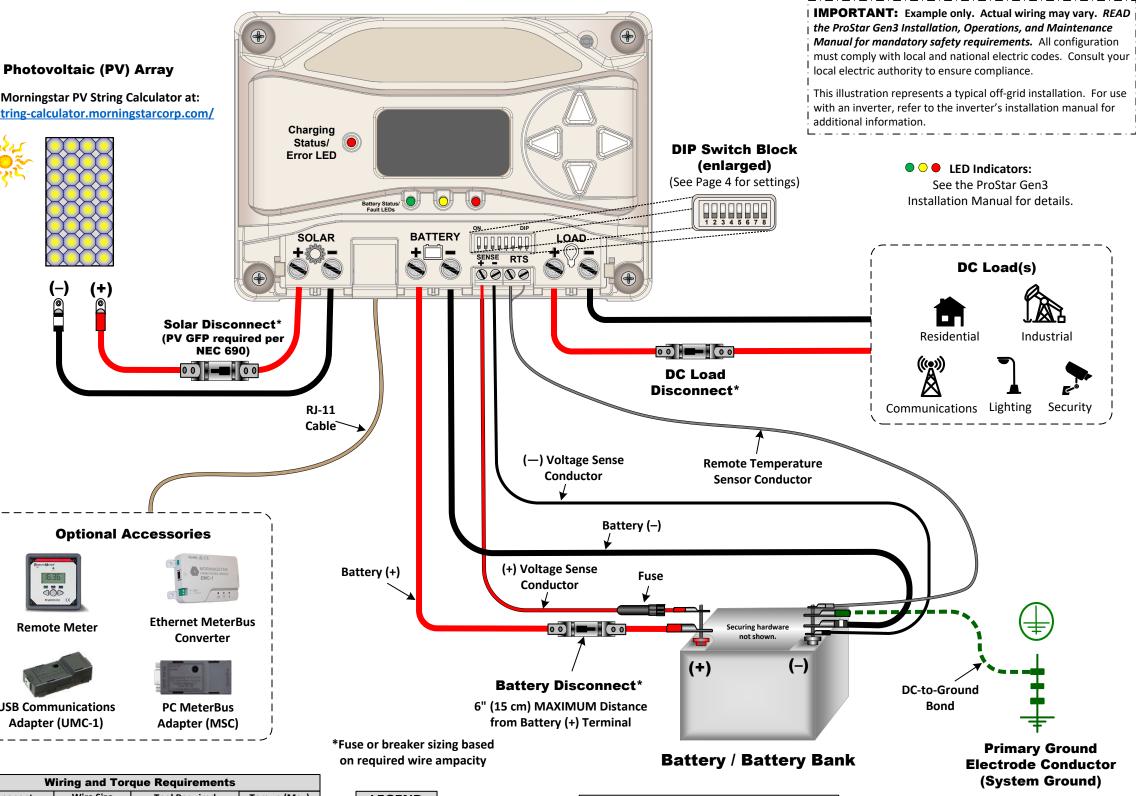
ProStar Gen3 Charge Controller

Quick Start Guide









the ProStar Gen3 Installation, Operations, and Maintenance Manual for mandatory safety requirements. All configuration must comply with local and national electric codes. Consult your

with an inverter, refer to the inverter's installation manual for

Power UP Sequence:

- 1. Connect Battery/Battery Bank.
- 2. Connect Solar.

Power DOWN Sequence:

- 1. Disconnect Solar.
- 2. Disconnect Battery/Battery Bank.

IMPORTANT: Ensure there is only 1

DC Negative-to-Ground Bond in the entire system.